

AMENDMENTS TO THE CLAIMS

1-5. (Cancelled)

6. (Currently Amended) A sliding member comprising:
a back metal; and
a sintered sliding body combined with the back metal,
wherein said sintered sliding body is composed of a sintered compact containing Cu or Cu alloy and a residue made of Mo principally,
wherein said sintered compact has a relative density of at least 80%, relative density being defined as a ratio of sintered density to true density of the sintered material, and
wherein said sintered compact contains Mo in an amount of 35 to ~~75 wt%~~ 70 wt%.

7-56. (Cancelled)

57. (Previously Presented) A sliding member according to claim 6, wherein said sintered compact is formed by sintering an Mo compact while simultaneously infiltrating the Mo compact with Cu or Cu alloy, and

wherein said sintered compact has a porosity of 7% or less by volume.

58. (Currently Amended) A sliding member according to claim 57, wherein said Mo compact is composed of Mo powder having an average grain size of 10 μ m~~10 mm~~ or less, and

wherein said Mo compact contains at least one of hard particles in a content of 0.2 to 10% by volume and a solid lubricant having an average grain size of 30 μ m~~30mm~~ or more in a content of 5 to 60% by volume.

59. (Previously Presented) A sliding member according to claim 6, wherein said sintered compact contains Cu alloy phase, the Cu alloy phase containing Sn in an amount of 5 to 20wt%.

60. (Previously Presented) A sliding member according to claim 59, wherein the Cu alloy phase in said sintered compact contains at least one element selected from the group consisting of Ti of 0.2 to 5wt%, Al of 0.2 to 14wt%, Pb of 0.2 to 15wt%, P of 0.1 to 1.5wt%, Zn of 0.1 to 10wt%, Ni of 0.1 to 10wt%, Co of 0.1 to 5wt%, Mn of 0.1 to 10wt%, and Si of 0.1 to 3wt%.

61. (Previously Presented) A sliding member according to claim 6, wherein sliding surfaces of said sintered sliding body are formed with recesses, and

wherein the recesses are filled with one of a lubricating compound of a lubricating oil and a wax, a lubricating resin, a solid lubricant, and a lubricating compound of a solid lubricant and a wax.

62. (Previously Presented) A sliding member according to claim 6, wherein said back metal is one of a back metal of a sliding bearing, a substrate of a bearing shaft supporting a rotating body, and a substrate of a spherical bushing.

63. (Previously Presented) A sliding member according to claim 6, wherein said sintered sliding body is combined with said back metal by a method selected from the group consisting of sintering-bonding, sintering-infiltrating-bonding, brazing, caulking, fitting, forcing, adhesion, bolt tightening, and clinching.

64. (Previously Presented) A sliding member according to claim 6, wherein said sintered sliding body is combined with said back metal by sintering-bonding, and
wherein said sintered body contains a bronze alloy phase, said bronze alloy phase in said sintered sliding body containing at least either one of Ti or Al in an amount of at least 0.5wt%.

65. (Previously Presented) A sliding member according to claim 6, wherein said sintered compact has a thermal expansion coefficient of 1.1 to 1.5×10^{-5} .

66. (Previously Presented) A sliding member according to claim 6, wherein said sintered sliding body has a sintered density of at least 8.2 gr/cm^3 .

67. (Currently Amended) A sliding member comprising:
a back metal; and
a sintered sliding body combined with the back metal,
wherein said sintered sliding body is composed of a sintered compact containing Cu or Cu alloy and a residue made of Mo principally,
wherein said sintered compact has a relative density of at least 80%, relative density being defined as a ratio of sintered density to true density of the sintered material,

wherein said sintered compact contains Mo in an amount of 35 to ~~75wt%~~, 70wt%,

wherein said sintered compact is formed by sintering an Mo compact while simultaneously infiltrating the Mo compact with Cu or Cu alloy,

wherein said sintered compact has a porosity of 7% or less by volume,

wherein said Mo compact is composed of Mo powder having an average grain size of 10 μ m ~~10mm~~ or less,

wherein said Mo compact contains at least one of hard particles in a content of 0.2 to 10% by volume and a solid lubricant having an average grain size of 30 μ m ~~30mm~~ or more in a content of 5 to 60% by volume,

wherein said sintered compact contains Cu alloy phase, the Cu alloy phase containing Sn in an amount of 5 to 20wt%,

wherein the Cu alloy phase in said sintered compact contains at least one element selected from the group consisting of Ti of 0.2 to 5wt%, Al of 0.2 to 14wt%, Pb of 0.2 to 15wt%, P of 0.1 to 1.5wt%, Zn of 0.1 to 10wt%, Ni of 0.1 to 10wt%, Co of 0.1 to 5wt%, Mn of 0.1 to 10wt%, and Si of 0.1 to 3wt%,

wherein said sintered sliding body has sliding surfaces formed with recesses,

wherein the recesses are filled with one of a lubricating compound of a lubricating oil and a wax, a lubricating resin, a solid lubricant, and a lubricating compound of a solid lubricant and a wax,

wherein said back metal is one of a back metal of a sliding bearing, a substrate of a bearing shaft supporting a rotating body, and a substrate of a spherical bushing,

wherein said sintered sliding body is combined with said back metal by sintering-bonding,

wherein said sintered body contains a bronze alloy phase, said bronze alloy phase in said sintered sliding body containing at least either one of Ti or Al in an amount of at least 0.5wt%,
and

wherein said sintered compact has a thermal expansion coefficient of 1.1 to 1.5×10^{-5} .

68. (Previously Presented) A sliding member according to claim 67, wherein said sintered compact has a relative density of 90 to 93%.

69. (Previously Presented) A sliding member according to claim 6, wherein said sintered compact has a relative density of 90 to 93%.